REMARKS

The Examiner has restricted this application to one of the following inventions under 35 U.S.C. § 121:

Group I - Claims 7, 8, 24, 30 (in part), 31, 38 (in part), 39, and 45, drawn to methods for detecting a polymorphism characterized by a A/G HaeIII site at position 295 of intron 1 of the MIS gene, classified in class 435, subclass 6.

Group II - Claims 9, 10, 25, 30 (in part), 32, 38 (in part), 40, and 46, drawn to methods for detecting a polymorphism characterized by a CIT Pm/I site at position 293 of intro 1 of the MIS gene, classified in class 435, subclass 6.

Group III - Claims 4, 13, 14, 15, 26, 30 (in part), 33, 38 (in part), 41, and 47, drawn to methods for detecting a polymorphism characterized by a C/T BsaJI site at position 15 of exon 3 of the MIS gene, classified in class 435, subclass 6.

Group IV - Claims 6, 11, 12, 27, 30 (in part), 34, 38 (in part), 42, and 48 drawn to methods for detecting a polymorphism characterized by an insterion of ACCAC between nucleotide position 62 and 63 of intron 3 of the MIS gene, classified in class 435, subclass 6.

Group V - Claims 18, 20, 21, 28, 30 (in part), 35, 38 (in part), 43, and 49, drawn to methods for detecting a polymorphism characterized by a *G/A* Msel site at position 68 of intron 4 of the GPX4A gene, classified in class 435, subclass 6.

Group VI - Claims 19, 22, 23, 29, 30 (in part), 36, 38 (in part), 44, and 50, drawn to methods for detecting a polymorphism characterized by a C/T Aval site at position 21 of intron 5, classified in class 435, subclass 6.

Group VII - Claims 30 (in part), 38 (in part), 65 (in part), and 66-73, drawn to methods for detecting a polymorphism characterized by an insertion of the sequence set forth in SEQ ID NO:35 into intro 1 of the FSHb gene, classified in class 435, subclass 6.

Group VIII - Claims 51 and 52, drawn to a nucleic acid of SEQ ID NO:25 with a T at position 618, classified in class 536, subclass 23.1.

Group IX - Claim 53, drawn to a nucleic acid of SEQ ID NO:26 with a T at position 1099, classified in class 536, subclass 23.1.

Group X - Claims 54 and 57, drawn to a nucleic acid of SEQ ID NO:26 with a G at position 1101, classified in class 536, subclass 23.1.

Group XI - Claims 55 and 58, drawn to a nucleic acid of SEQ ID NO:26 with ACCAC inserted between positions 1940 and 1941, classified in class 536, subclass 23.1.

Group XII - Claims 59 and 61, drawn to a nucleic acid of SEQ ID NO: 27 with an A at position 220, classified in class 536, subclass 23.1.

Group XIII - Claims 60 and 62, drawn to a nucleic acid of SEQ ID NO: 27 with a T at position 284, classified in class 536, subclass 23.1.

Group XIV - Claim 64 (in part), drawn to a method for analyzing a genetic marker that is the microsatellite SW240, classified in class 435, subclass 6.

Group XV - Claim 64 (in part), drawn to a method for analyzing a genetic marker that is the microsatellite SW1686, classified in class 435, subclass 6.

Group XVI - Claim 64 (in part), drawn to a method for analyzing a genetic marker that is the microsatellite SW1564, classified in class 435, subclass 6.

Group XVII - Claim 64 (in part), drawn to a method for analyzing a genetic marker that is the microsatellite SW747, classified in class 435, subclass 6.

Group XVIII - Claim 64 (in part), drawn to a method for analyzing a genetic marker that is the microsatellite SW0091, classified in class 435, subclass 6.

Group XIX - Claim 64 (in part), drawn to a method for analyzing a genetic marker that is the microsatellite SW1342, classified in class 435, subclass 6.

Group XX - Claim 65 (in part), drawn to a method for analyzing a gene that is the CGRP gene, classified in class 435, subclass 6.

Group XXI - Claim 65 (in part), drawn to a method for analyzing a gene that is the INSL3 gene, classified in class 435, subclass 6.

Group XXII - Claim 65 (in part), drawn to a method for analyzing a gene that is the PDE4A gene, classified in class 435, subclass 6.

Group XXIII - Claim 65 (in part), drawn to a method for analyzing a gene that is the RSTN gene, classified in class 435, subclass 6.

Group XXIV - Claim 65 (in part), drawn to a method for analyzing a gene that is the CAST gene, classified in class 435, subclass 6.

Linking Claims

Claims 1, 37, and 63 link(s) inventions I-VII and XIV-XXIV.

Claim 2 link(s) inventions I-IV.

Claim 3 link(s) inventions I, II, and IV.

Claim 5 link(s) inventions I and II.

Claims 16 and 17 link(s) inventions V and VI.

Applicants provisionally elect, with traverse, Group I, Claims 7, 8, 24, 30 (in part), 31, 38 (in part), 39, and 45, and linking claims 1, 2, 3, 5, 37 and 63, drawn to methods for detecting a polymorphism characterized by a A/G HaeIII site at position 295 of intron 1 of the MIS gene, classified in class 435, subclass 6. The inventions do not require separate searches as they are all related by a single trait in pigs.

No fees or extensions of time are believed to be due in connection with this amendment; however, consider this a request for any extension inadvertently omitted, and charge any additional fees to Deposit Account No. 26-0084.

Reconsideration and allowance is respectfully requested.

Respectfully submitted,

HEIDI S. NEBEL, Reg. No. 37,719
McKEE, VOORHEES & SEASE, P.L.C.
801 Grand Avenue, Suite 3200
Des Moines, Iowa 50309-2721
Phone No: (515) 288-3667
Fax No: (515) 288-1338
CUSTOMER NO: 22885
Attorneys of Record

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